A crime is committed by one of two suspects, A and B. Initially, there is equal evidence

against both of them. In further investigation at the crime scene, it is found that the guilty

party had a blood type found in 10% of the population. Suspect A does match this blood

type, whereas the blood type of Suspect B is unknown. (a) Given this new information, what

is the probability that A is the guilty party? (b) Given this new information, what is the

probability that B’s blood type matches that found at the crime scene?





